BRCAK, Jaroslav SURNAME, Given Names

Country: Czechoslovakia

Academic Degrees: Not given

Affiliation: Biologic Institute, Czechoslovak Academy of Sciences,

Department of Phytopathology, Prague (Biologicky Ustav CSAV

THE RESERVE OF THE PARTY OF THE

oddeleni fytopatologie)

Source: Prague, Biologia Plantarum, Vol 5, No 4, 1961; pp285 -290 Biologio and electron microscope study of "Strichelkrankheit" (Striate disease?) of tomatoes. Dates

¢SAV: Ceskoslovenska Akademia Ved)

GPO 981643

BRCAK, Jaroslav

Interference of the tobacco mosaic virus with the cucumber mosaic virus on tobacco plants. Biologia plantarum 4 no.3:176-181 '62.

1. Phytopathologishche Abteilung des Instituts für experimentelle Botanik der Tschechoslowakischen Akademie der Wissenschaften, Na Karlovce 1, Praha-Dejvice.

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BRCAK, Jaroslav

Biological and electronmicroscopic determination of streak in tomatoes. Biologia plantarum 3 no.4:285-290 '61.

1. Phytopathologische Abteilung des Biologischen Institutes der Tschechoslowskischen Akademie der Wissenschaften, Praha 6 - Dejvice, Na Karlovce 1.

BROAK, Jaroslav

Identification of the yellows virus and the beet mosaic virus by electronic microscope and biological methods. Listy cukrovar 80 no.ll:281-287 N 164.

1. Department of Phytopathology of the Institute of Experimental Botany of the Czechoslovak Academy of Sciences, Prague.

DJORDJEVIC-CAMBA, Djordje; BURIJAN, Jovan; BRCELJ, Stefanija

A case of parathyroprival tetany treated with bone grafting.

Srp arhiv lekar 82 no.2:241-245 F '54. (ERAL 3:7)

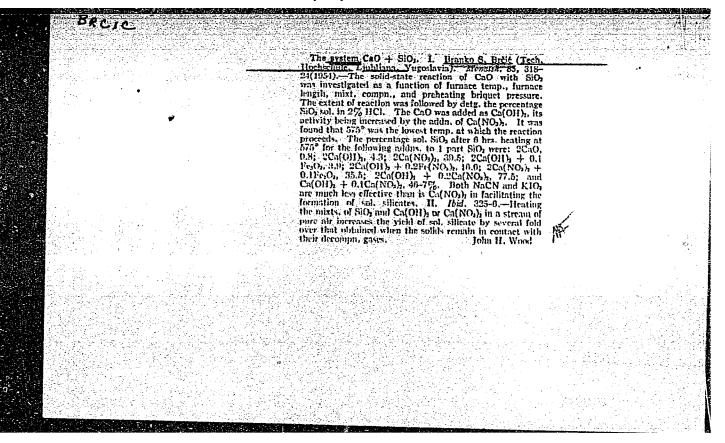
1.! Hirurska klinika Medicinskog fakulteta u Beogradu, upravnik: prof. dr. Milivoje Kostic, II Interna klinika Medicinskog fakulteta, upravnik: prof. dr. Djordje Brkic. (Rad je Urednistvo primilo 10-IX-1953 god.)

(TRANSPLANTATION

*bone, in ther. of parathyroprival tetany)

*parathyroprival, ther., bone transpl.) (BONES, transpl.

*in ther. of parathyroprival tetany)



BRCIC, B.

BRCIC, B.; Slivnik, J. On the synthesis of uranium hexafluoride. In English. p. 47

Vol. 2, May 1955 REPORTS SCIENCE Ljubljana

So: East European Accession, Vol. 6, No. 3, March 1957

YUGOSLAVIA/Physical Chemistry - Thermodynamics,

B-8

Thermochemistry, Equilibria, Physical Chemical

Analysis, Phase Transitions.

Abs Jour : Ref Zhur - Khimiya, No 7, 1958, 20634

Author : Branko Brcic, Bogdan Volavsek, Jernej Jernejcic. Inst

Title : On the Solubility of Chromite in Sulfuric Acid.

Orig Pub : Kemija u industriji, 1957, 6, No 7, 189-191

Abstract The possibility of chromite (I) dissolution in a little

excess of H2SO1 (50%) in presence of compounds of 6-valent Cr was investigated. The yield of solute Cr depends very much on the diespersion of I. The yield is 67.5%, if the particle size was about 100 M and it rises gradually with the dispersion increase. An addition of Fe neutralizes the solution. The method of using an excess of acid was used for the preparation of crystalline ferrosulfate

and of the salt of 3-valent Cr with the necessary degree

of acidity. Card 1/1

SLIVNIK, J.; BRCIC, B.; VOLAVSEK, B.; SMALC, A.; FRLEC, B.; ZEMLJIC, R.; ANZUR, A.; VEKSLI, Z.

On the synthesis of, and magnetic measurements on, xenon tetrafluoride. Croat chem acta 34 no.3:187-188 162.

1. "Jozsef Stefan" Institute for Nuclear Research, Ljubljana, Slovenia, Yugoslavia (for Slivnik, Brcic, Volavsek, Smalc, Frlec, Zemljic, and Anzur.) 2. Institute "Ruder Boskovic", Zagreb, Croatia, Yugoslavia (for Veksli).

BRCIC, Branko S.; JERNEJCIC, Jernej F.

Contributions to the knowledge of the system CaO # SiO2. Pt. 4. Glas Hem dr 25/26 no.8/10:466-468 *60/*61.

BRCIC, B.S.; MILICEV, S.; SIFTAR, J.

Synthesis of calcium metatitanate at low temperature. I. Croat chem acta 33 no.4:169-179 '61.

1. Laboratorij za anorgansko kemijo, Institut za kemijo, Univerza v Ljubljani.

BRCIC, B.S.; GOLIC, L.; PETERNEL, P.; SIFTAR, J.; ZUMER, M.

The $GaO - Al_2O_3$ at low temperatures. Vest Slov kem dr 9 no.1/2:27-32 Ja-Je $^{\circ}62$.

l. Laboratorij za anorgansko kemijo, Institut za kemijo Univerze v Ljubljani.

BRCIC, B.S.; CUK, M.

Water vapor for preventing pyrophorus in UO₂ powder. Vest slov kem dr 9 no.3/4:55-56 Jl-D '63.

1. Nuklearni institut "Jozef Stefan", Ljubljana.

BRCIC, B.S.; JERNEJCIC, J.

The BaO-Ba(NO₃)₂, Ba(OH)₂-Ba(NO₃)₂, and SrO-Sr(NO₃)₂ systems. Vest Slov kem dr 9 no.3/4:65 Jl-D 163.

1. Iaboratorij za anorgansko kemijo Instituta za kemijo Univerze v Ljubljani.

BRCIC, B.S.; BRENCIC, J.; SIFTAR, J;

Synthesis of calcium metatitanate at low temperature. Pt. 2. Croat chem acta 35 no.2:135-139 '63.

1. Laboratorij za anorgansko kemijo, Institut za kemijo, Univerza v Ljubljani.

FRIEC, B.: BRCIC, B.S.; SLIVNIK, J.

Studies in the N2H6F2-UF6-HF system. Croat chem acta 36 no.3:173 164.

1. Jozef Stefan Institute, Ljubljana. Submitted July 15, 1964.

BRCIC, V.

Third Yugoslav Congress in Mechanics. p. 492. TEHNIKA (Savez inzenjera itehnicara Jugoslavije) Beograd. Vol. 11, no. 4, 1956

SOURCE: East Europe Accession Lists (EEAL), Library of Congress, Vol. 5, no. 11, Nov. 1956

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TECHNOLOGY

Periodical: SAOPSTENJA. TRANSACTIONS. No. 6, 1957.

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Intensity of the pressure centered on the junctions of the plates in lattice girders. Zbor grad Univ Beograd 5 197-210 162.

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The 6th Yogoslav Congress of Rational and Applied Mechanics. Tehnika Jug 17 no.10:1848-1850 0 :62.

BRCIC-KOSTIC, Mato (Subotica)

Solution of a generalized Fermat equation. Ves mat fiz Srb no.11:17-22 '59.

BRCIC-KOSTIC, Mato, dr. prof. (Subotica, Aleja Marsala Tita 4); DIRNER, Aleksandar, inz., prof. (Subotica, Brace Radica 38)

House water installations with hydrophore supplied by piston or centrifugal pump. Tehnika Jug 19 no.5: Supple Masinstvo 13 no.5:875-884 My '64.

1. Higher Technical School, Subotica.

BRDA, J.; KRAL, F.

"System of Crop Rotation and Mechanized Manuring", P. 719, (ZA SOCIALISTICKE ZETEDELSTVI, Vol. 4, No. 7/8, July/Aug. 1954, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12, Dec. 1954, Uncl.

CZECHOSLOVAKIA

KOPECKY, J.; BRDA M.; Research Institute of Pharmacy and Biochemistry (Vyzkumny Ustav pro Farmacii a Biochemii), Prague.

"Synthesis of L(+) -2,21-(Ethylenediimino)-di-1-Butanol (Ethambutol)."

Prague, Ceskoslovenska Farmacie, Vol 15, No 7, Sep 66, pp 367-368

Abstract /Authors' English summary modified 7: The chemical discussed is a stereospecific antituberculous agent; it was synthethized by hydrogenolytic debenzylation of L(+)-2,2'-(ethylene-N,N'-dibenzylimino)-di-1-butanol, prepared from optically active 2-benzylamino-1-butanol and ethylenedibromide by alkylation. 10 Western, 2 Czech, 3 Russian, 1 Hungarian reference.

1/1

- 51 -

MILETIC, B.; PETROVIC, D.; HAN, A.; BRDAR, B.

Morphological changes produced by x-rays on animal cells in tissue cultures. Vojnosanit. pregl. 20 no.7:415-419 Jl '63.

l. Institut "Ruder Boskovic" u Zagrebu, Radioloski odjel.
(RADIATION EFFECTS) (TISSUE CULTURE)
(CYTOLOGY)

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MILETIC, B.; HAN, A.; BRDAR, B.; PETROVIC, D.

Quantitative analysis of the survival of animal cells following x-irradiation. Vojnosanit. pregl. 20 no.8:489-494 Ag '63.

1. Institut "Ruder Boskovic" u Zagrebu. Radioloski odjel. (RADIATION EFFECTS) (TISSUE CULTURE) (CYTOLOGY)

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SMIT, Slavica; MILETIC, Branimir; DRAKULIC, Marija; STAVRIC, Stanislava; BRDAR, Branko

Photorestoration of the biosynthesis of nucleic acids in irradiated bacteria. Biol glas 15 no. 4: 207-214 '62.

1. Institut" Ruder Boskovic", Radiobioloski odjel, Zagreb.

MILETIC, B.; PETROVIC, D.; BRDAR, B.; DRAKULIC, M.

Restoration of irradiated animal cells with isologous subcellular fractions. Vojnosanit Pregl. 20 no.10:629-635 0 '63.

1. Institut "Ruder Boskovic," Zagreb, radiobioloski odjel.

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Effect of chloramphenical on the division and survival of L-strain cells in culture. Vojnosanit.pregl. 20 no.12: 752-757 D*63.

1. Institut "Ruder Boskovic", Zagreb, radiobioloski odjel.

*

YUGOSLAVIA

R. BRDARIC, M. MIHOLJCIC and S. JADRIC, Department of Physiology and Biochemistry of Medical Faculty (Institut za fiziologiju i Hohemiju Medicinskog fakulteta,) Sarajevo.

"Paper Chromatography of Rat Salivary and Pancreatic Amylase."

Belgrade, Arhiv za Farmaciju, Vol 13, No 2, 1963; pp 93-97.

Abstract [English summary modified]: Study of effect of these enzymes on 1% solution of starch over 10 and 30 minutes, 6 and 24 hours: paper chromatographic analysis. Main differences were that pancreatic amylase produced more glucose earlier but both amylases formed sugars easily; final hydrolysis products differed but slightly. Table, two paper chromatograms; 18 Western-language references include 1 unpub. by authors.

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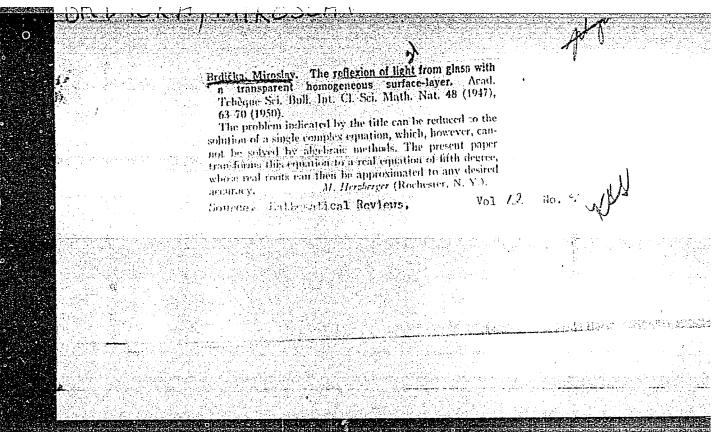
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BRDEK, Miroslav, CSc.

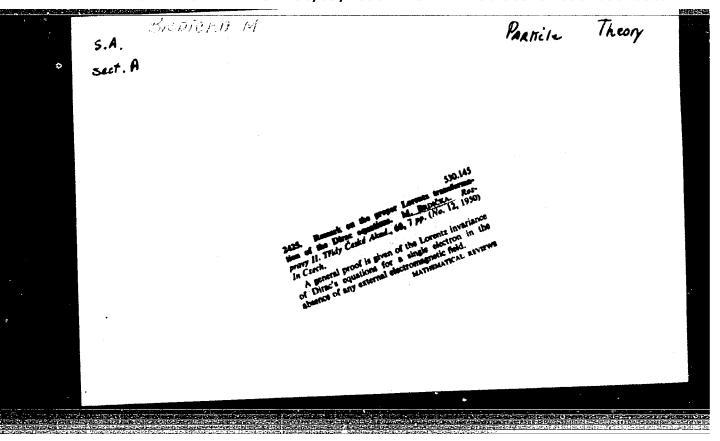
Some trends in the development of food product consumption in the member states of the Council of Mutual Economic Assistance, Prome retravin 15 no.10:487-491 0 164.

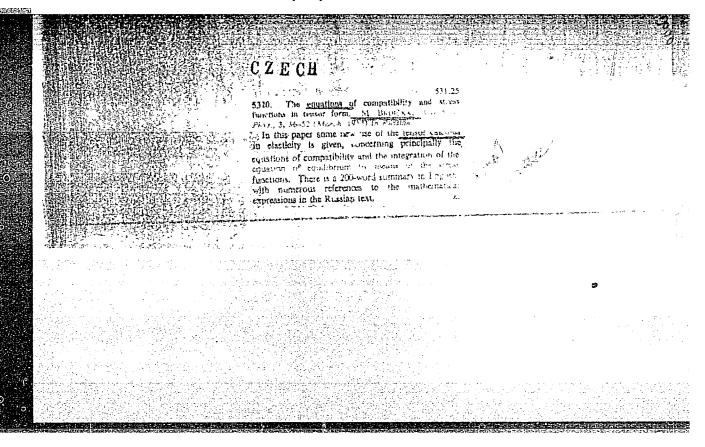
1. Research Institute of Economic Planning, Prague.

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	VBrdlika, Miroslav. Reflection of light by giess with a transparent homogeneous surface coating. Rozpravy II. Tridy Českė Akad. 57, no. 10, 18 pp. (1947). (Czech)
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Brdička, Miroslav. The reflexion of light from glass with a natural transparent inhomogeneous surface-layer.					
Acad. Tchèque Sci. Bull. Int. Cl. Sci. Math. Nat. 49					
(1948), 81–89 (1950). In the study of the reflection of plane polarized light many					
reflecting substances exhibit a feeble elliptical polarization					
which is explained by assuming that a thin transparent surface-layer is spontaneously formed. Drude [Lehrbuch		•			e de la compresión de l
der Optik, Hirzel, Leipzig, 1900, p. 2757 has suggested a					
formula for the polarization if the dielectric constant of the layer is given as a function of its distance from the glass	grafia (see Silvina) Paga Silvings (see Silvina)			i e i i i i i i i i i i i i i i i i i i	
surface. The author suggests a special formula for this					
\$ dependency and then computes from Drude's formula the polarization. The results are compared with experimental	· W				
data obtained by the author. M. Messberger.	N				
Source: Mathematical Reviews, Vol /	12 No.	a in the	جراؤها المعجران		mine.





Brdicka, M.

Historical remarks on reflection of glass with two thin transparent layers. P. 227
CESKOSLOVENSKY CASOPIS PRO FYSIKU. (Ceskoslovenska akademie ved. Ustav technicke fysiky) Praha
Vol. 6, no. 2, Mar. 1956

Source: EEAL - LC Vol. 5. No. 10 Oct. 1956

BRDICKA, M.

Contribution to the general form of Beltrami's equation and Papkovic's colution of the problem of the acis of symmetry of the classical theory of elasticity.

P. 231, (Ceskoslovensky Casopis Pro Fysiku) Vol.7, no.3, 1957, Praha, Czechoslovakia

SO: Monthly Index of East European Acessions (EEAI) Vol. 6, No. 11 November 1957

	BRDICKA, M.			
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			Brdička, Miroslav. On the general form of the Beltrami equation and Papkovich's solution of the axially symmetrical problem of the classical theory of elasticity. Czechoslovak J. Phys. 7 (1957), 262-274. (Russian summary) The author shows how to get the explicit form of the Beltrami-Michell equations in orthogonal curvilinear physical components by specialization from their contravariant form. He then shows how to derive the Papkovitch solution for axially symmetrical problems by specialization of the general solution of the equilibrium equations. (Since the author makes a point of correcting attributions, the reviewer remarks that what the author calls the Trenin solution (1953) is due essentially to Love [Elasticity, 2nd ed., Cambridge, 1906, § 183] and what he calls the Finzi-Krutkov solution (1934, 1949) is due to Gwyther [Mem. Proc. Manchester Lit. Philos. Soc. 56 (1911-1912), no. 10.)	2

CZECHOSLOVAKIA/Acoustics - Sound Waves and Oscillations.

Abs Jour : Ref Zhur - Fizika, No 6, 1959, 13903

Author :

: Brdicka, Miroslav; Dvorska, Marketa

Inst

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Title : Elastic Coupling Between Longitudinal and Transverse

Vibrations of Isotropic Rods.

Orig Pub

: Ceskosl. casop. fys., 1958, 8, No 4, 508-510

Abstract

: A theoretical calculation is made, showing the influence of the dimensions of the transverse cross section of round and rectangular rods on the frequency of longitudinal oscillations of these rods. The concept of coefficient of elastic coupling is introduced, and procedure is given for calculating the values of these coefficients.

Card 1/1

24.4100

2/037/60/000/02/008/018

AUTHORS:

Brdicka, Miroslav, Nováková-Dvorska, Markéta and

Dvoracek, Zbyněk

TITLE:

On Two Approximate Methods of Computation of Longitudinal Oscillation Frequencies of Homogeneous and Isotropic Bars

PERIODICAL: Ceskoslovensky casopis pro fysiku, 1960, Nr 2,

pp 136 - 146

ABSTRACT:

The authors review the two best known approximate methods of computation of longitudinal oscillation frequencies of rectangular and circular cross-section bars, namely, those of Rayleigh (The Theory of Sound, Vol I, London 1926, 251-252) and of Giebe and Blechschmidt (Ann. d. Phys. 18 (1953), 5, 417, 457). The correction introduced by Rayleigh improves the frequency equation only for some of the lower oscillation frequencies but at higher frequencies there is still a considerable divergence between the corrected equation and the measured frequencies. A much better agreement between calculated and measured frequencies is obtained by the calculations

of Giebe and Blechschmidt , who derived a frequency equation on the basis of the theory of coupled oscillations

Card1/6

2/037/60/000/02/008/018

On Two Approximate Methods of Computation of Longitudinal Oscillation Frequencies of Homogeneous and Isotropic Bars

> of systems with a finite number of degrees of freedom. The fields of application of both methods and some of their disadvantages are discussed. The authors also review the work of Mindlin and Herrmann (Columbia Univ., NY, Dept, Civ. Eng., Sept., 1951) (this paper was not available to the authors - only a review of same by Malvern - Appl.Mech. Rev. 5, 1951, 1308) and the work of Mindlin (J. Appl. Phys. 22, 1951, 516), although this does not relate directly to homogeneous and isotropic rods. The paper deals in particular detail with the theories of Rayleigh and Giebe and Blechschmidt, which formed the starting point of experiments by the authors of this paper to obtain a better agreement between calculated and measured frequencies and the result of this work forms the subject of a separate paper. The authors conclude that the relative failure of the Giebe-Blechschmidt theory of longitudinal oscillations for rods of rectangular and circular cross-section can be understood by considering the success of this theory

Card 2/6

Z/037/60/000/02/008/018

On Two Approximate Methods of Computation of Longitudinal Oscillation Frequencies of Homogeneous and Isotropic Bars

> for thin tubes. In the latter case, the conception of coupling two suitable oscillation systems leads to results which can be obtained from theoretical considerations based on the fundamental dynamic equations of the theory of elasticity and this also explains the good agreement between calculated and measured frequencies. Giebe and Blechschmidt tried to apply this procedure, which was successful for thin tubes, for rods of circular and rectangular cross-section. The thus obtained results are not sufficiently related with the theory of elasticity although in the first series of experiments the measured values of the frequencies of rods of longitudinal and circular cross-section were in good agreement with the values predicted by the coupling theory. It appears that the main difficulty of their theory is their adherence to the dead zone, which is contradicted even by their own measurements. The question arises whether addition of higher frequencies of transverse oscillations would not be helpful in the case; from the point of view of the

Card3/6

Z/037/60/000/02/008/018

On Two Approximate Methods of Computation of Longitudinal Oscillation Frequencies of Homogeneous and Isotropic Bars

> Giebe-Blechschmidt theory the value of the coupling parameter will become important since according to the conception of both authors the character of the coupling would no longer be the same. The authors of this paper believe that the question of coupling parameters is more complex than appears from the Giebe-Blechschmidt theory, according to which the magnitude of the coupling parameters does not depend on the class of longitudinal oscillations and is equal for all the theories. Its determination from limit frequencies is also doubtful in spite of the fact that the results have justified this procedure to some extent. Thus, the theory of Giebe and Blechschmidt (or the theory of Giebe and Scheibe) was fully successful as long as the results obtained were equal to those obtained by the theory of elasticity, i.e. for thin-walled tubes. It appears that by introducing coupling between systems with finite degrees of freedom the laws of the theory of elasticity are not fully adhered to in the case of solid

Card4/6

z/037/60/000/02/008/018

On Two Approximate Methods of Computation of Longitudinal Oscillation Frequencies of Homogeneous and Isotropic Bars

rods. Therefore, the authors have attempted to derive approximate equations for the frequencies of oscillation of solid rods by another method described in an earlier paper (Cs. Cas.fys. 8(1958), 508). As starting equations

$$e_{22} = -\sigma e_{11}$$
, $e_{55} = -\sigma e_{11}$ (2.8)

$$\frac{\partial \mathbf{v}}{\partial \mathbf{y}} = -\sigma \cdot \frac{\partial \mathbf{u}}{\partial \mathbf{x}}, \quad \frac{\partial \mathbf{w}}{\partial \mathbf{z}} = -\sigma \cdot \frac{\partial \mathbf{u}}{\partial \mathbf{x}}$$
 (2.9)

were used, where e_{ij} are the strain components and $u_2 \equiv v$ and $u_5 \equiv w$ are the components of the elastic displacements in the direction of the y and z axes; the equations were generalised, i.e. instead of the Poisson constants σ , the two parameters φ and ψ were introduced, which as a general rule vary with the

Card5/6

2/037/60/000/02/008/018

On Two Approximate Methods of Computation of Longitudinal Oscillation Frequencies of Homogeneous and Isotropic Bars

> order of the oscillations and for their determination a condition is introduced that the appropriate frequency assumes a steady-state value. Under certain simplifying assumptions the authors succeeded in obtaining equations for frequencies, the results of which are approximately in as good agreement with the measured results as results calculated according to the Giebe and Blechschmidt theory and there is the advantage that this method does not rely on the conception of a dead zone. There are 18 references, of which 9 are English, 8 German and 1 Czech.

Matematicko-fysikální fakulta University Karlovy, Praha ASSOCIATIONS: (Department of Mathematics and Physics, Charles University,

Prague)

Vyzkumný ústav matematických strojů, Praha

(Computer Research Institute, Prague)
Ustav technické fysiky ČSAV, Praha

(Institute of Technical Physics, ČSAV, Prague) Card6/6

SUBMITTED: December 1, 1959

89085 Z/026/60/005/001/002/005 B112/B202

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AUTHOR:

Brdička, Miroslav, Docent, Doctor

TITLE:

Comments on the paper by Frantisek Nozička "On a model in the classical two-body problem"

PERIODICAL: Aplikace Matematiky, v. 5, no. 1, 1960, 30-39

TEXT: The author refers to the paper by F. Nozicka: O jednom modelu v klasickém problému dvou těles, Aplikace matematiku 5 (1960), no. 1 (Ref.1), in which a geometrical interpretation of the classical two-body motion, especially of the revolution of a mass point M_2 with mass m_2 about a homogeneous sphere M_1 with the radius R and the mass m_1 is discussed. In the present paper the author derives some results obtained by Nozička by the conventional method used in classical physics. He proceeds from Binet's equation: $\frac{d^2u}{d\phi} + u = \frac{xm_1}{c}, \text{ where } u = 1/r, x \text{ is the gravitational constant and } c = r^2\phi \text{ is constant according to Kepler's second law. This } Card 1/3$

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Comments on the paper ...

equation has the following solution:

$$r = \frac{\frac{c^2}{x m_1}}{1 + \frac{Ac^2}{x m_1} \cos(\varphi + y^2)}$$

A can be determined from the initial values r_{o} and v_{o} of the distance and

the velocity of M_2 : $A^2 = \frac{v_0^2}{c^2} - \frac{2\kappa m_1}{c^2} \cdot \frac{1}{r_0} + \frac{\varkappa^2 m_1^2}{c^4}$. If ψ_0 is the angle between the vectors \vec{r}_0 and \vec{v}_0 , $c = v_0 r_0 \sin \psi_0$ holds. To determine the boundary line of the two domains in the trajectory plane of M_2 (i.e., in the r, φ plane) within which the end point of \vec{v}_0 is to lie in order that M_2 hits or passes by the sphere, the author writes down: $r_0 = R + h$, $\eta = v_0 \sin \psi_0$, $\xi = v_0 \cos \psi_0$ and obtains the equation of a Card 2/3

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Comments on the paper...

hyperbola for the desired boundary line: $\frac{(R+h)(2R+h)}{2\kappa m_1 R} 7^2 - \frac{R(R+h)}{2\kappa m_1 h} \xi^2 = 1$

which is in agreement with that obtained by Nožička. There are 2 figures and 9 references: 5 Soviet-bloo and 2 non-Soviet-bloc.

ASSOCIATION: Matematicko-fysikální fakulta Karlovy university, Praha (Division of Mathematics and Physics of Charles University, Prague)

SUBMITTED: May 22, 1959

Card 3/3

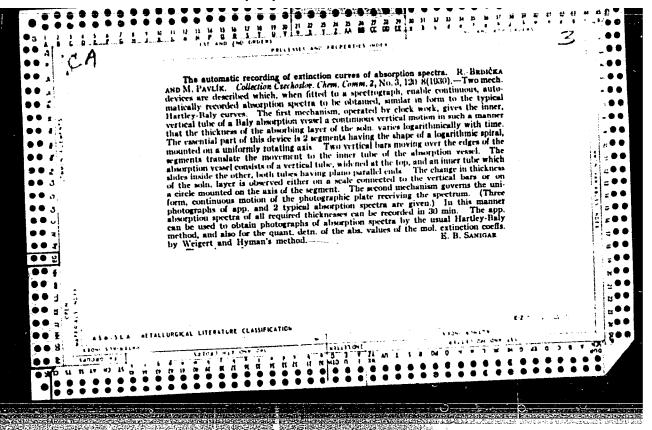
BRDICKA, R.; KREN, V.; FRENZL, B.; STARK, G.

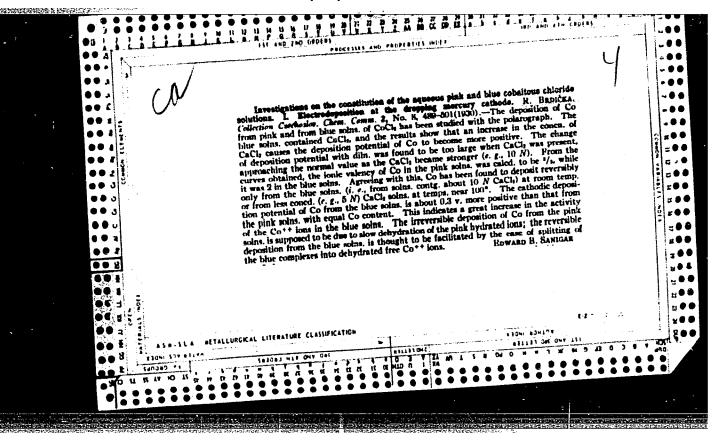
Interlineal relationships in rats. Folia biol. 8 no.6:352-359 '62.

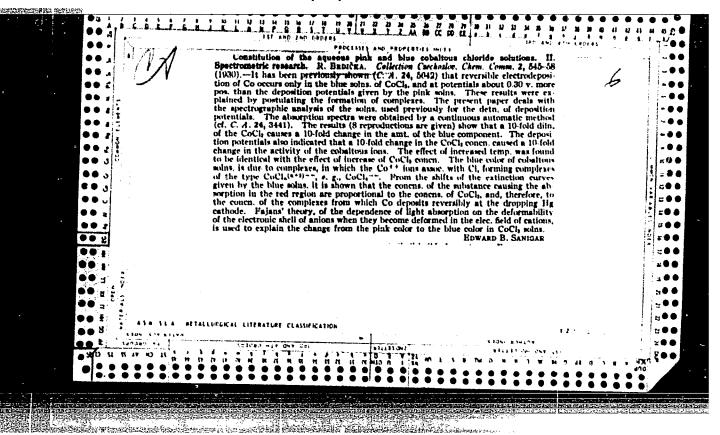
1. Department of General Biology, Faculty of General Medicine, Charles University, Prague. (SKIN TRANSPLANTATION) (ERYTHROCYTES) (ANTIGENS)

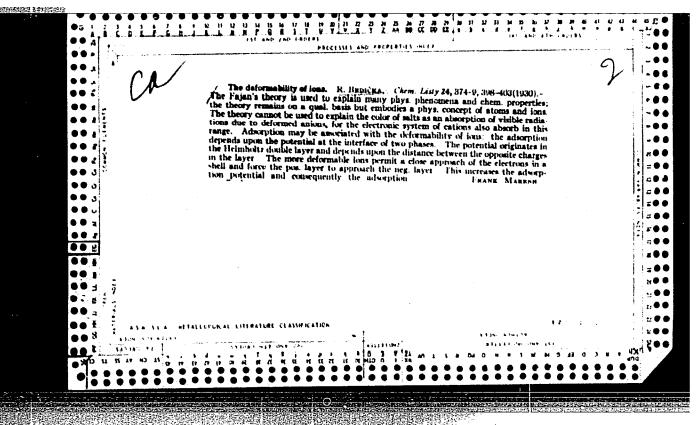
BRDICKA, R.

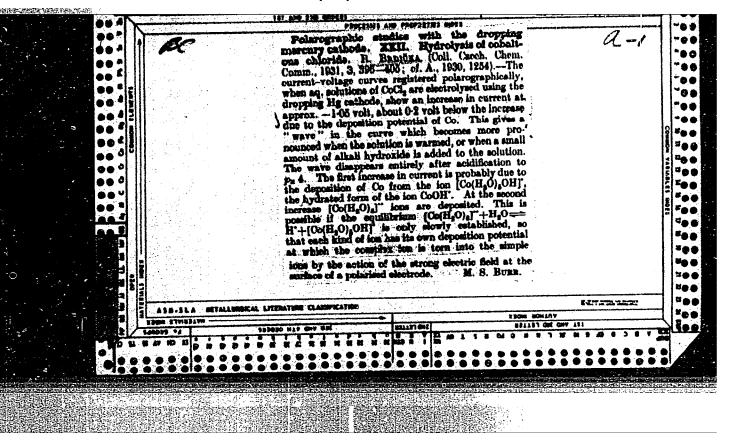
Result of ten years' work of the Czechoslovak Academy of Sciences in chemical science. Chem listy 56 no.11:1281-1295 N '62.

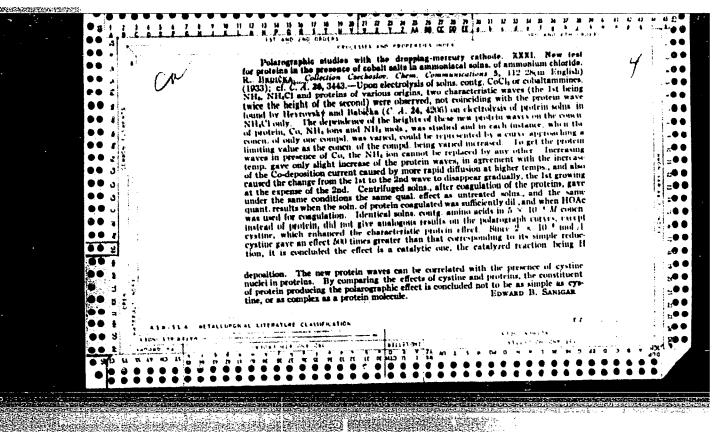


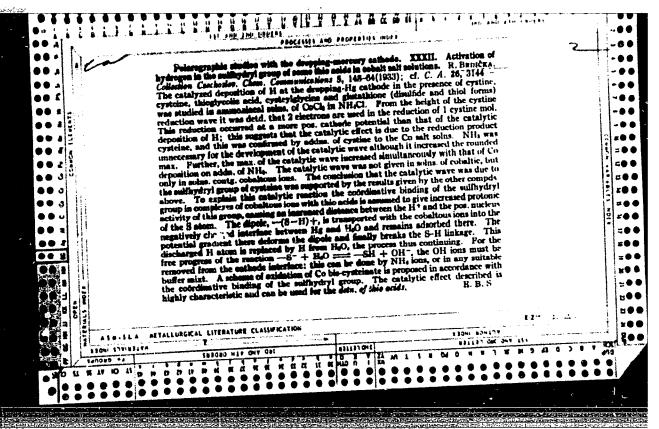


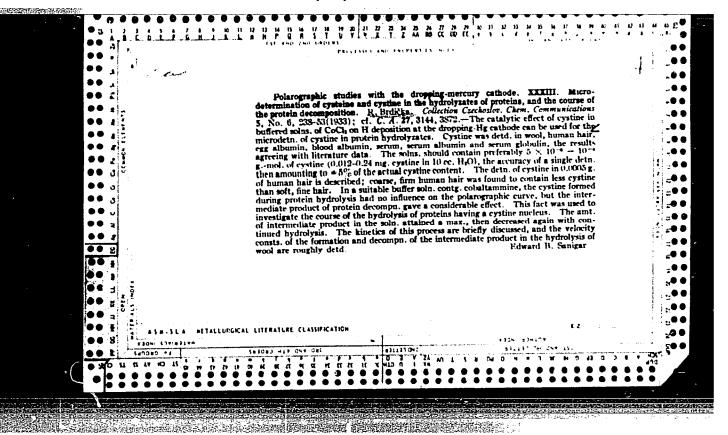


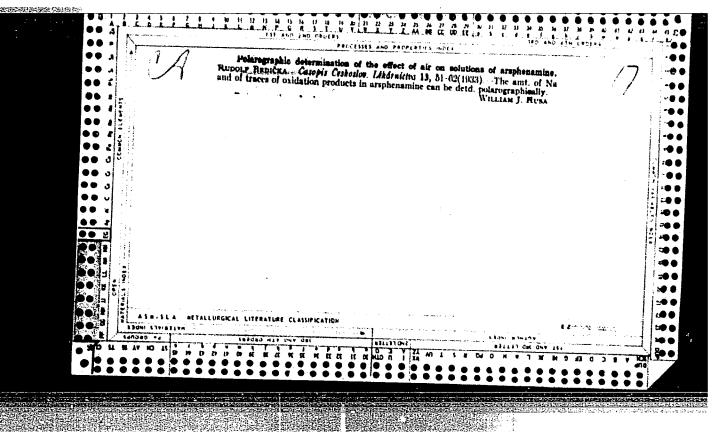


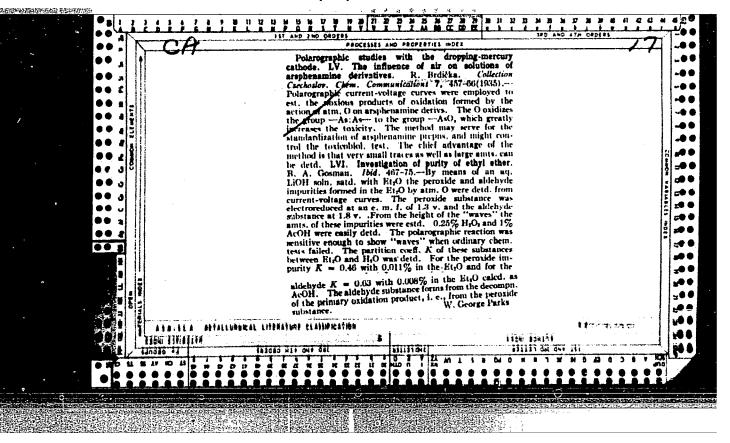


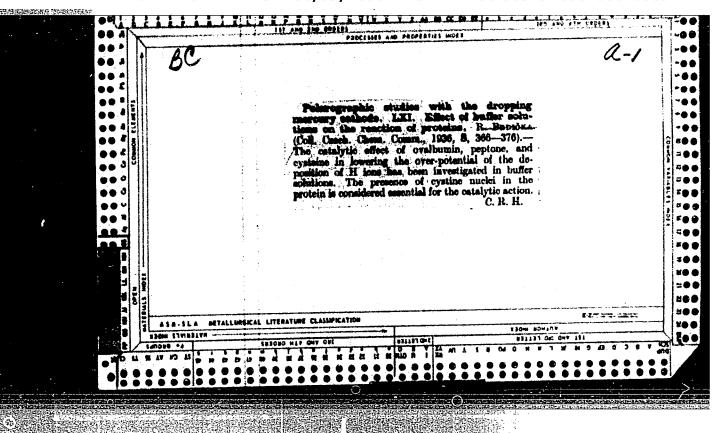


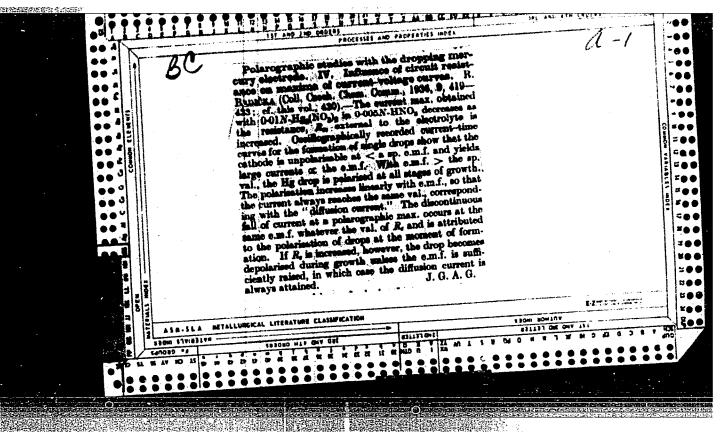


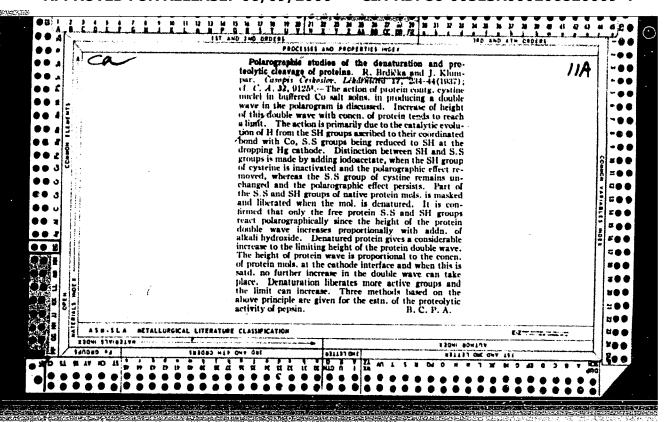




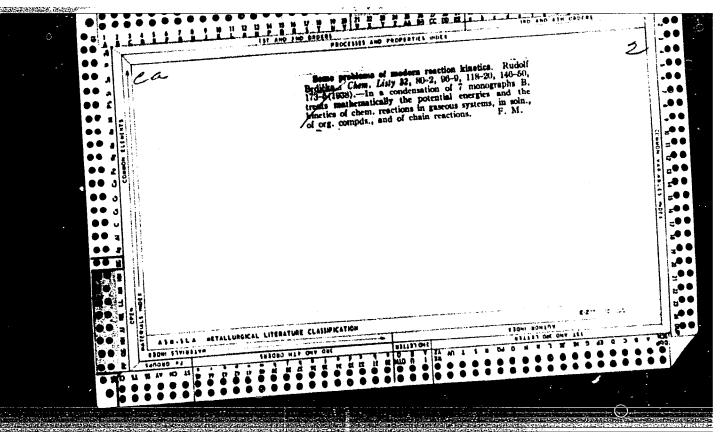


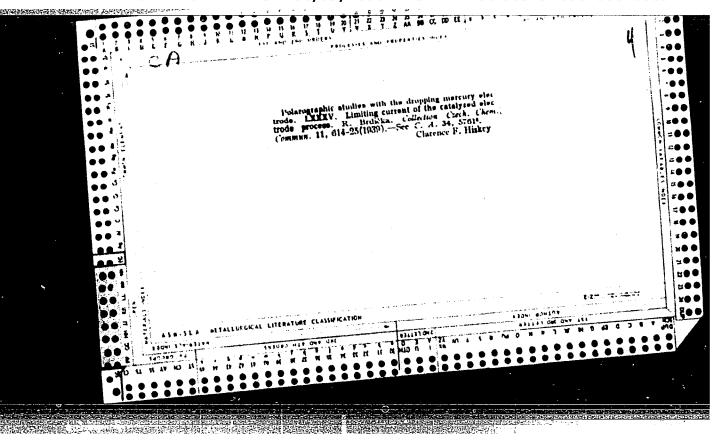


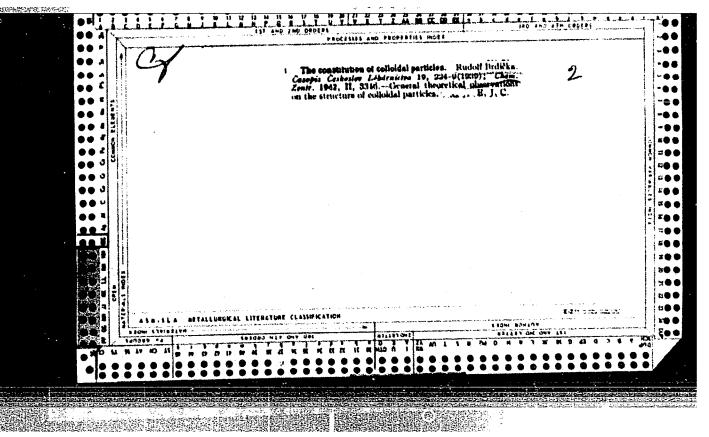


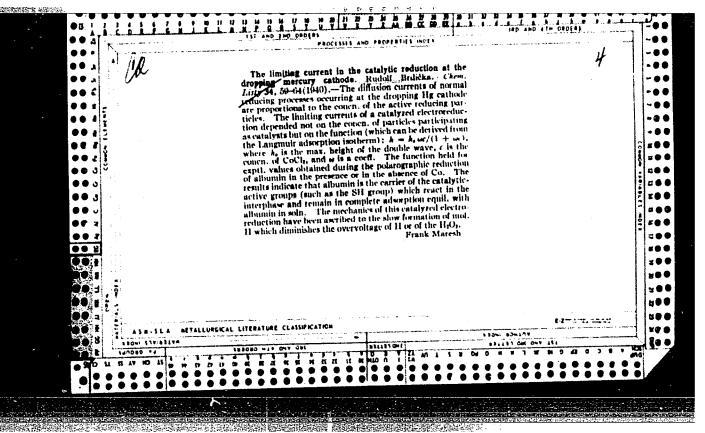


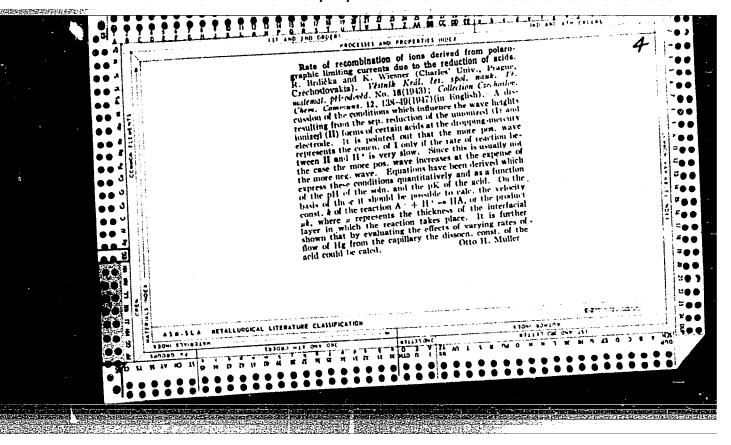
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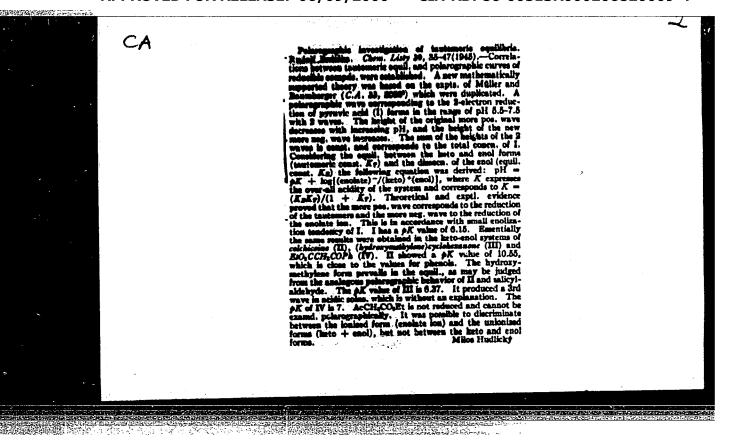


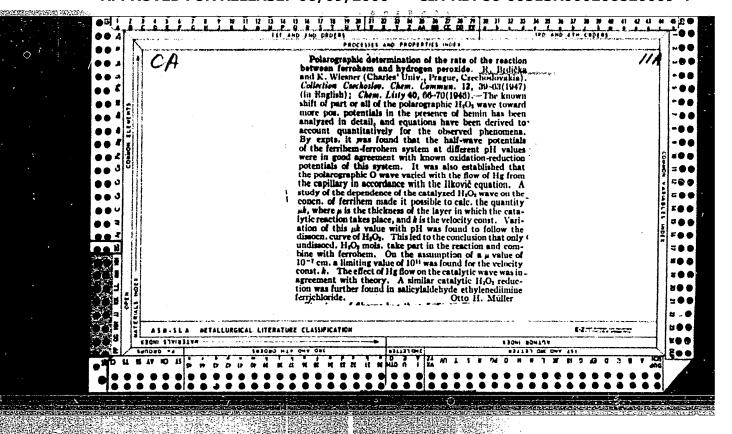


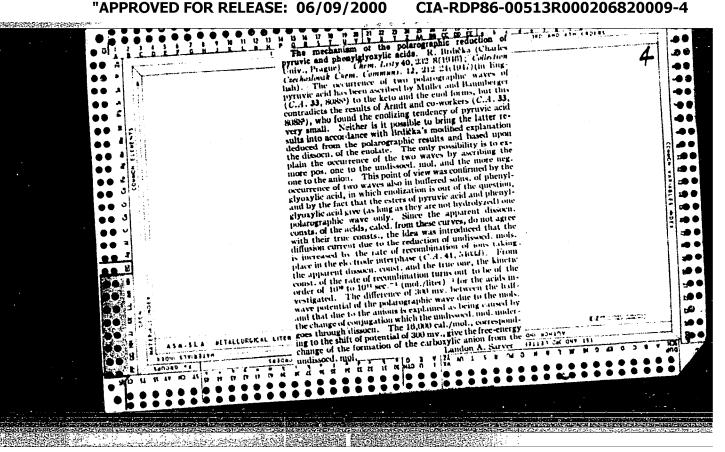


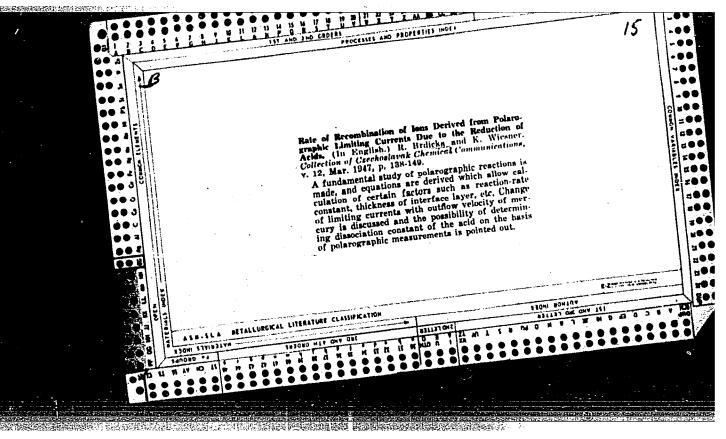


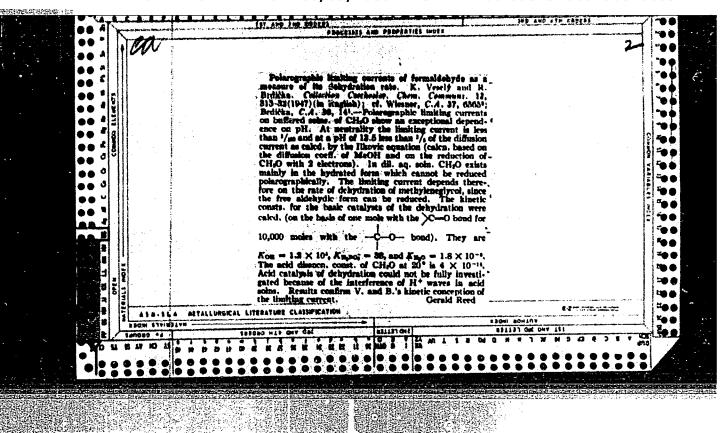


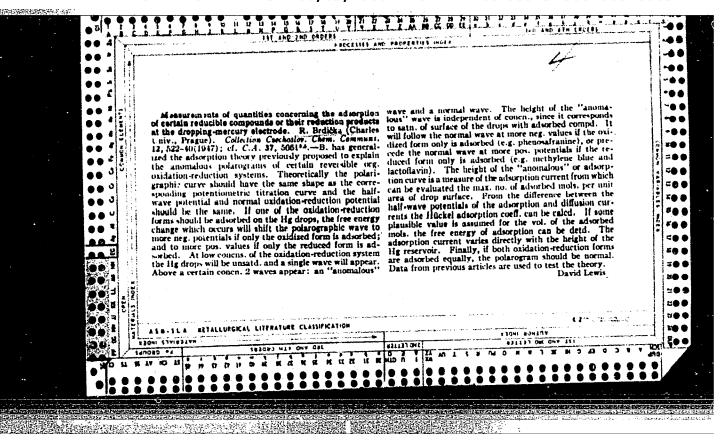






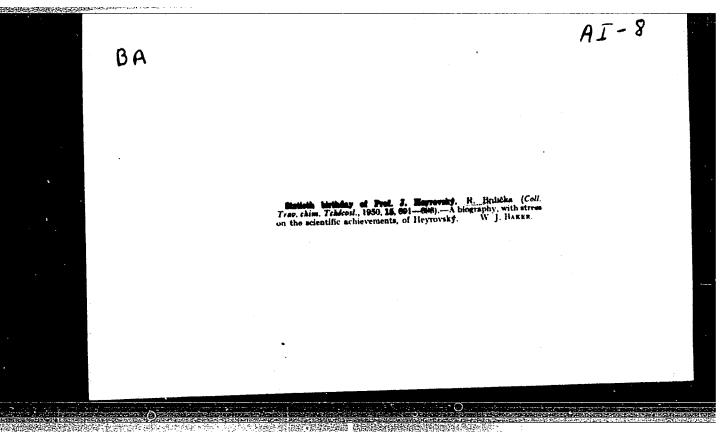


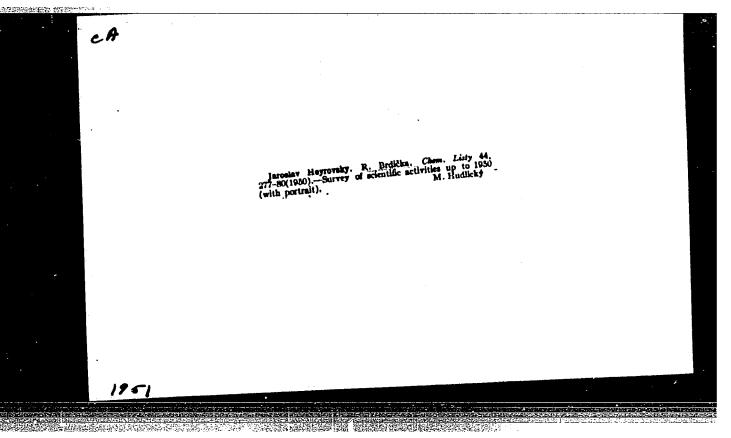


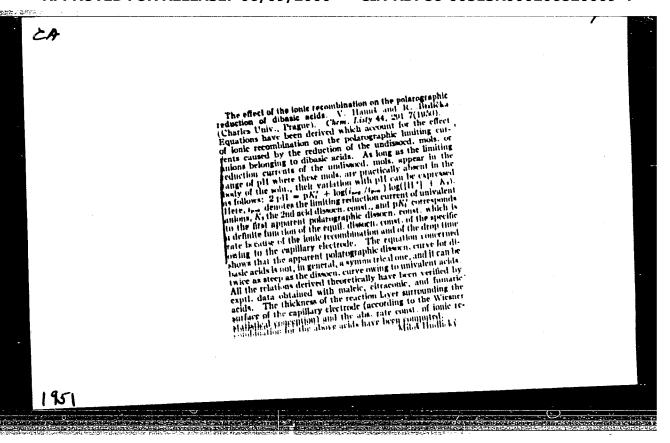


CA

Decomposition of lactoflavin by light. Rudoll Brdaka (Bulovka Hope, Prague). Collections Czechoslov. Chem. Communt. 14, 130-44 (1940) (in English). Light decompn. of lactoflavin (I) was studied polarographically to det. the products of photolysis which were oridized or reduced at the dropping-Hig electrode. Solus, of I, freed of air by bubbling in Hi, were irradiated with a Hig lamp for given time intervals and didd, in 1:5 ratio with buffer solus, over the pH range 1.8-12. Lumichronne (II) appeared over the entire pH range and showed a reduction wave distinct from that of I. In some cases the ant. of II was as great as 50% of the original amt, of I, owing to the change of half of I to dihydroflavin (III). Different polarographic findings were obtained in slightly alk, neutral, and acid media. Two new waves with heights equiv. to that of II and with half-wave potentials of -1,000 and -1,80 v., resp., were detected in a solution of pH 12. The first wave was due to CH₂O, and from the potentials of the corresponding sugar homologs, the second was altituded to crythrose; these resulted from decompn. of the dehydrogenated sugar chain, and their formation suggested the sugar decompn, might have or-tored as existed the sugar decompn, might have or-tored as existed the sugar decompn, might have or-tored as existed the wave of I into the range of anodic currents. The reaction mechanism suggested is capture of a H atom from the second C atom of the sugar chain by N atom I with formation mechanism suggested is capture of a H atom from the second C atom. In a neutral solu. (pH 6.8), a smaller sound of II and a side chain with a CO group on the nucleus of III and a side chain with a CO group on the tential than I. CH₁O in anits, equiv. to II was formed as well as a reduced product assumed to be deuterolactoflavin. It had a more posponent tential than I. CH₁O in anits, equiv. to II was formed, and to cleavage products of the sugar chain appeared polaron product of the sugar chain. In a cid solu, optically in the contro

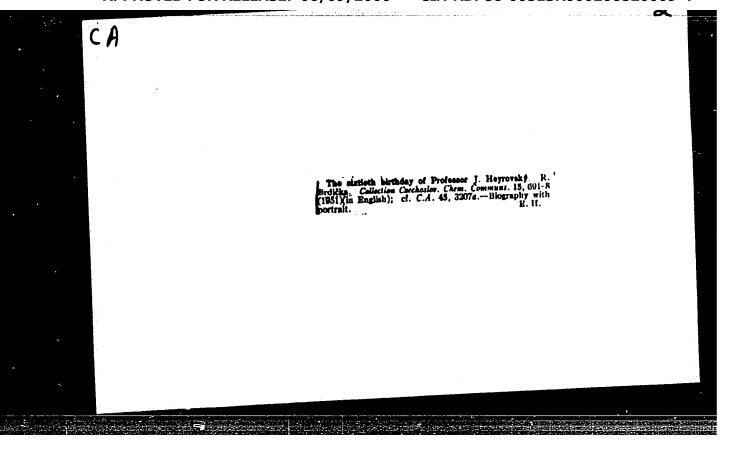




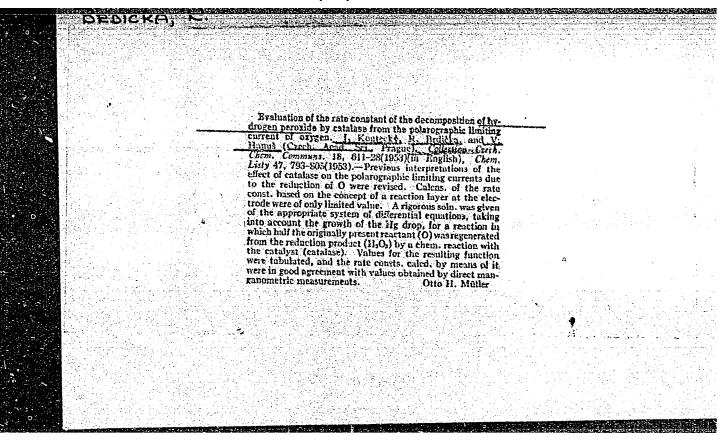


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Atomic energy. Cas. cesk. lek. 63 no.14 157-163 July 1950. (CIML 20:1)



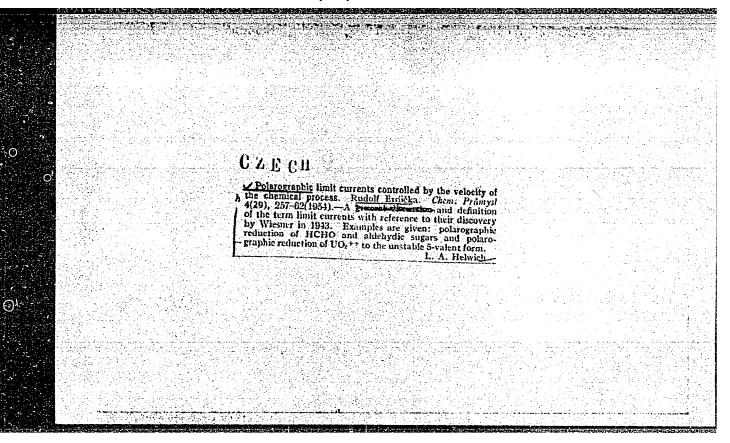
International Polarographic Congress. 1st, Pragus, 1951 International Polarographic Congress and ordered in Part 2, 200 congress prints. Prints. Prints. 1st, 1951 International Polarographic Congress and ordered and Dynamic Congress. Prints. Prints. 1st, 1951 International Polarographic Congress and ordered in 1951 (1952 and 1952 and 1	ue, 1951 ue, 1951 ugus, 1951 ugus, 1951 ugus, 1951 publishing Bouse: under Ingers and criginal papers and criginal papers and surve are congress, and are the Congress, and English with series of the	10 cc 11 cc 11 cc 12 cc	295 395 399	01 404 407 110 113	123 123 135 135 135	373
	PHASE I BOOK EXPLOITATION Financographic Congress. lat, Frag Francographic Congress. lat, Frag Francographic Prints, Proceedings. Francograps. Francographic Congress. Francographic Prints, Prints, Prints, Proceedings. Francographic Congress. Francographic Congress. Francographic Congress. Francographic Congress, Con	Congress: Professor Miltor Kendia, Desing of the Pace Congress: Professor Miltor Kendia, Desing Manaki, Walsaki, Doloco Jarcell Dolacay, Minitor of Sciences Manaki, Doloco Jarcell Dolacay, Minitor of Sciences and Professor Jarcella Polacay, Minitor of Sciences of Sciences of Sciences and Pechnical Development, References follow each paper. Foreity - Apparatus for Getlingraphic Polarography (German Translation) Haylough J. Oscillographic Polarography (Manakan Translation) Haylough J. Oscillographic Polarography (Manakan Translation)	Kinetics of Electrode frocesses in Entropy of Easic Trivale Systems Complexes of Iron with Saccharose	of, M, and M. Ebert. Effect of Gelatin a Side Deports M. Side Deports M. Side Deports M. Side Deports M. Side Translation] rean Translation] Study of Hydrogen Overvoltage With a Me is Mith Controlled Dropping The	capillary Constants on the city] on] to Classify Refined Sugars b to Classify Refined Sugars b on] on]	and A_Tockatein. Validity of the Nerma he Deduction of the Polarographic Wave Ex Delarography in Concentrated Sulfuric Act Freaslation Translation Study of Current Discontinuity Appearing a Electrode



BRDICKA, R.; HANUS, V.; KOUTECKY, J.

Brdicka, R.; Hanus, V.; Koutecky, J. "Calculation of the rate constant for the decompostion of hydrogen peroxide by catalase from polarographic limiting currents caused by oxygen. p. 793 CASOPIS PRO PESTOVANI MATEMATIKY. CZECHOSLOVAK MATHEMATICAL JOURNAL. Vol. 47, no. 6, June 1953, Praha, Czechoslovakia.

SO: Monthly List of East European Accessions, IC., Vol. 3, No. 1, Jan. 1954, Uncl.



BraickA, Rudoli

CZECHOSLOVAKIA/Electrochemistry

B-12

Abs Jour : Ref Zhur - Khimiya, No 8, 1957, 26303

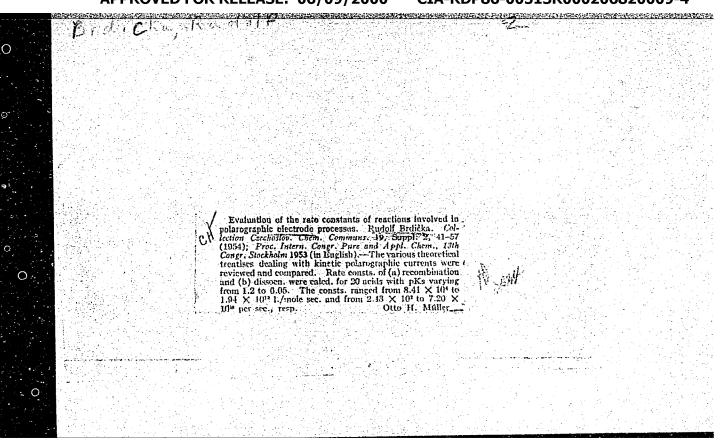
Author : Rudolf Brdicka

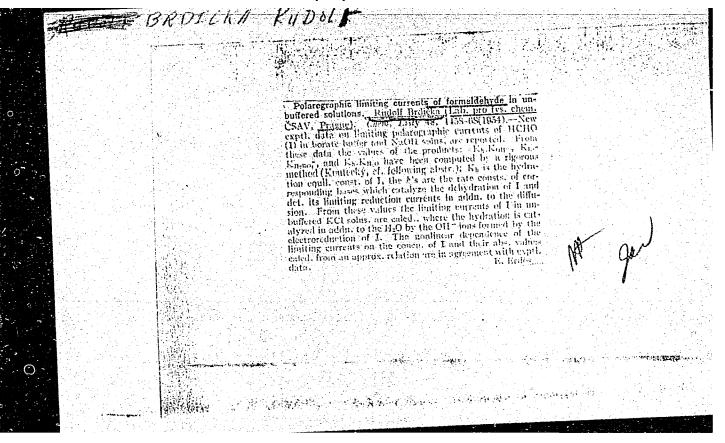
: Kinetics of Reactions Preceding of Following Electrode Process.

Orig Pub: Chem. zvesti, 1954, 8, No 10, 670-692

Abstract : Detailed review of works concerning the precise and approximate solutions of problems connected with kinetic limitations of currents in polarography. Bibliography with 56 titles.

Card : 1/1





BRDICKA, R.

Polarographic limiting current of formaldehyde in unbuffered sloutions. In German. p. 387

Vol. 20, no. 2, Apr. 1955 SBORNIK CHEKHOSLOVATSKIKH KHIMICHESKIK RABOT Prama, Czechoslovakia

So: Eastern European Accession Vol. 5. No. 4. April 1956

CZECHOSLOVAKIA/Physical Chemistry. Kinetics. Combustion.

Explosions. Topochemistry. Catalysis. B-9

Abs Jour: Ref Zhur-Khim., No 13, 1958, 42587.

Author : Brdicka Rudolf, Spurny Zdenek.

Inst Title

: Kinetics of Radio-Oxidation of Cystine in Aquecus

Solutions.

Orig Pub: Chem. listy, 1957, 51, No 7, 1267-1273.

Abstract: Soft x-rays (50 kv) accelerate oxidation of cystine (I) in solution, in the presence of Ω of the air. Decrease of I, which is oxidized probably to disulfoxide, was studied by the authors by the polarographic method in ammoniacal solutions of CoCl₁. Kinetics of radio-oxidation was measured in the case of 10⁻³ - 10⁻⁶ M solutions of I at dosage rates of

Card : 1/2

18

CZECHOSLCVAKIA/Physical Chemistry. Kinetics. Combustion. Explosions. Topochemistry. Catalysis.

B-9

Abs Jour: Ref Zhur-Khim., No 13, 1958, 42587.

33 roentgens/second. The graph representing the ratio of reaction yield G at pH 3 to the initial concentration has the configuration of a parabola, i.e., G is approximately proportional to the square root of the concentration of $\underline{\mathbf{I}}$. At dosages exceeding 18 . 10¹⁷ Ev/ml, deviations from the above stated correlation, occur, which the authors attribute to a probable regeneration of $\underline{\mathbf{I}}$ from the disulfoxide.

Card : 2/2

CZECHOSLOVAKIA / Physical Chemistry. Radiation Chem-B-10 istry. Photochemistry. Theory of the Photographic Process.

Abs Jour: Ref Zhur-Khimiya, No 23, 1958, 76767.

Author : Brdicka, R. and Spurny, Z.

Inst : Not given.

Title : The Kinetics of the Radio-Oxidation of Cystine

in Aqueous Solutions.

Orig Pub: Collect Czechoslov Chem Commun, 23, No 4, 561-

568 (1958) (in German with a Russian summary).

Abstract: See RZhKhim, 1958, 42587.

Card 1/1

46

Z/037/60/000/01/001/014 E073/E535

AUTHOR:

Brdička, R., Academician

TITLE:

Academician Jaroslav Heyrovský, Winner of the 1959

Nobel Prize for Chemistry

PERIODICAL: Československý časopis pro fysiku, 1960, Nr 1,

pp 1-2 + 1 plate

ABSTRACT:

Brief outline of the career of this well known scientist who has done pioneering work in the field of polarography.

Professor Heyrovský is the Director of the Central

Institute for Polarography, Czechoslovak Academy of

Sciences. In 1951 he was awarded the first State Prize for research in oscillographic polarography and in 1955 he was decorated with the Order of the Czechoslovak

Republic.

Card 1/1

Z/008/60/054/012/001/004 E073/E335

AUTHOR: Brdička, R,

TITLE: On the Seventieth Birthday of Academician Heyrovský

PERIODICAL: Chemické listy, 1960, Vol. 54, No. 12, pp. 1219 - 1227 + 3 plates

TEXT: In 1950 the Ustrední ústav polarografický (Central Polarography Institute) was created which, under the leadership of Professor Heyrovský, was transferred two years later to the ČSAV. In 1951, Professor Heyrovský and the most able members of his team organised the First International Polarography Conference which was held in Prague. In 1952, a conference of practical polarography was held in Bratislava and at the Thirteenth International Congress of Pure and Applied Chemistry in Stockholm an entire section was reserved for polarography. In 1954, polarography discussion meetings were held at Smolenice with foreign participation. In 1955, polarography topics were discussed at the Congress of Electrochemistry in Warsaw and the First Czech-ilungarian Polarography Conference: the communications presented at the latter were

Card 1/3

Z/008/60/054/012/001/004 E073/E335

On the Seventieth Birthday of Academician Heyrovsky

published in Vol. 9 of Acta Chimica (Hungary). Several other congresses are mentioned in which polarography was discussed, particularly the Second International Polarography Congress held at Cambridge, England. In 1958, Professor Heyrovský lectured in China. In 1960, he lectured in Egypt. He was awarded the Nobel Prize in 1960. During the last twenty years Professor Heyrovský has paid most attention to oscillographic polarography. In spite of his numerous administrative responsibilities he still devotes a certain amount of time to laboratory work. He studied various types of curves produced on an oscillograph screen, using an impressed alternating current, i.e. curves of the dependence of the potential of a mercury drop or of a jet electrode on time and the dependence of the change with time of this potential on time or voltage. He considers the study of this dependence to be of the utmost importance since it provides new views on the nature of electrode processes and, in some cases, it

Card 2/3

2/008/60/054/012/001/004 E073/E335

On the Seventieth Birthday of Academician Heyrovský enables analysis at lightning speed of investigated specimens. Professor Heyrovský is following closely the problems relating to hydrogen overvoltage, electrode reversibility of oxidationreduction systems, current maxima, the influence of surfaceactive substances on electrode processes and other problems. to the solution of which he has contributed directly or indirectly. He guides and coordinates his team in their research work. He also takes an active interest in the development of polarographic and oscillographic apparatus and other experimental equipment. A list is included at the end of the paper of the books and papers published by Professor Heyrovský. This list includes 170 papers published in periodicals, 16 papers published in books and 12 books.

Card 3/3

STARK, O.; KREN, V.; FRENZL, B.; BRDICKA, R.

Attempt to induce a "graft versus host" reaction in grown tolerant chicks and the causes of its failure. Folia biol. 7 no.4:243-251 '61.

1. Department of Biology, Faculty of General Medicine, Charles
University, Prague.
(TRANSPLANTATION immunol.) (SKIN TRANSPLANTATION immunol.)

CZECHOSLOVAKIA

BRDICKA, R; SPURNY, Z; FOJTIK, A.

Institute of Physical Chemistry and Institute of Nuclear Research of the Czechoslovak Academy of Sciences, Prague

Prague, Collection of Czechoslovak Chemical Communications, No 6, 1963, pp 1491-1498

"Effect of the Dose Intensity on the Rate of Radio-Oxidation of Cystine in Aqueous Solutions."

BRDICKA, R.; SPURNY, Z.; FOJTIK, A.

Effect of the dose intensity on the rate of radio-oxidation of cystine in aqueous solutions. Coll Cz Chem 28 no.6:1491-1498 Je '63.

1. Institute of Physical Chemistry and Institute of Nuclear Research, Czechoslovak Academy of Sciences, Prague.